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Additionally, the method could include the step of sampling a portion of the reaction mixture from the respective reaction chambers via at least one of the interchangeable manifolds, wherein sampling occurs at a pressure greater than ambient conditions and without reducing the pressure in the respective reaction chambers. And the step of providing the reaction chambers with starting mixtures can be performed by a robotic materials handling system or the starting materials could be manually added to the respective reaction chambers.

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BRIEF DESCRIPTION OF THE DRAWINGS

The features and inventive aspects of the present invention will become more apparent upon reading the following detailed description, claims, and drawings, of which the following is a brief description:

Fig. 1 shows a perspective view of a parallel reactor assembly formed in accordance with the teachings of the present invention.

Figs. 2a-d show a rear, top and side view of the parallel reactor block assembly shown in Fig. 1.

Figs. 3a-d show a front perspective view and a detailed view of the reactor block shown in Fig. 1.

Fig. 4 shows a rear perspective view of the parallel reactor block assembly shown in Fig. 1.

Fig. 5 shows a section view of one reactor well (reaction chamber) of the parallel reactor shown in Fig. 1.

Fig. 6 shows a section view of the parallel reactor shown in Fig. 2a taken along the line 6-6.

Fig. 7 is a detail view of the structure shown in Fig. 6, showing the internal flow paths through the parallel reactor.

Fig. 8 shows a perspective view of a stir top assembly that forms part of the parallel reactor shown in Fig. 1.

Fig. 9 shows a bottom perspective view of the stir top assembly shown in Fig. 8.

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